



## Sulf-N® News: Improving Fertilizer Efficiency

April 2020

### Sulf-N® Outperforms Elemental Sulfur Formulations in Soybean Field Trials

The first field-based, peer-reviewed paper comparing sulfate versus elemental sulfur (ES) formulations on soybeans was recently published in *Communications in Soil Science and Plant Analysis*. Two separate field trials compared three commercial sulfur (S) fertilizers in 2016 and 2017 to evaluate their effectiveness at increasing soybean yields.

The paper describes the superior fertilizer efficiency of ammonium sulfate (AS as Sulf-N®) over two AS+ES formulations: sulfur-enriched mono-ammonium phosphate (MAP-10S as MES®-S10®) and a bulk blend of AS and ES with bentonite (AS+ES as Tiger 90CR®). Among the findings, the following are particularly noteworthy:

- A significant soybean yield response to S was observed with all S sources. However, AS (as Sulf-N®) was twice as efficient as the two ES formulations at maximizing soybean yields.
- AS fertilization improved soybean yields significantly, by 20 percent in 2016 and 18 percent in 2017.
- In the case of the two ES + AS formulations, ES oxidation was not enough to provide significant plant-available S during soybean growth to maturity.

[Learn more here.](#)

#### Useful Resources

Sulf-N® ammonium sulfate is an excellent source of sulfate-S, which is immediately available to crops, as well as ammonium-N, which resists volatilization. For more information about Sulf-N® benefits, [visit this page](#) or contact [Mercedes Gearhart](#), Senior Agronomist at AdvanSix.

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#### Contact AdvanSix

To learn more about the benefits of Ammonium Sulfate, visit

[AdvanSix.com](#) or [SulfN.com](#) or call:

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